




Physics


Advice for Year 11 and 12 students learning from home

The Queensland Curriculum and Assessment Authority (QCAA) understands that the COVID-19 pandemic has changed the way many senior students are accessing their learning.

We've prepared some suggestions to help you with your studies.

Resources to support preparation for assessment

Assessment type	Suggestions to support learning from home
Data test (IA1) 	<ul style="list-style-type: none">• Review the Internal assessment 1 (IA1) section of the subject report that can be found on the Teaching tab on the Physics subject page. Focus on the points about effective practices.• Review the mandatory and suggested practicals, activities and case studies from Unit 3.• Create practice data test questions using primary data from practicals you have done in class.• Use the IA1 sample assessment instrument: Data test (10%) as a practice data test.• Mark your responses to the sample data test using the IA1 sample marking scheme: Data test (10%).
Student experiment (IA2) 	<ul style="list-style-type: none">• Review the Internal assessment 2 (IA2) section of the subject report that can be found on the Teaching tab on the Physics subject page. Focus on the samples of effective practices.• Consult with your teacher to determine a method that allows you to collect primary data either safely at home or remotely, such as<ul style="list-style-type: none">– The Physics Aviary www.thephysicsaviary.com and Eduweblabs http://eduweblabs.com/Database/Lab_FoldersP/Inclined/Inclined.html, which are websites with a range of simulations available that allow for the collection of data including uncertainties– Tracker https://physlets.org/tracker and SPARKvue www.pasco.com/products/software/sparkvue#download-panel, which are video tracking and accelerometer applications/software that allow for the analysis of motion of objects.• Consider strategies to modify your research question to suit the data that you may be required to collect remotely.• Use the IA2 high-level annotated sample response: Student experiment (20%) for Physics and the samples from similar Science subjects (e.g. Chemistry) as examples of high-level responses.
Research investigation (IA3) 	<ul style="list-style-type: none">• Review the Internal assessment 3 (IA3) section of the subject report that can be found on the Teaching tab on the Physics subject page. Focus on the samples of effective practices.• Use online resources to collect secondary data relevant to your research question, such as<ul style="list-style-type: none">– State Library of Queensland www.slq.qld.gov.au– CERN https://home.cern.• Consider strategies to modify your research question to suit the data that you may be required to collect remotely.• Use the IA3 high-level annotated sample response: Research investigation (20%) for Physics and the samples from similar Science subjects (e.g. Chemistry) as examples of high-level responses.

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External assessment (EA) 	<ul style="list-style-type: none"> • Review past papers and the sample external assessment that can be found on the Assessment tab on the Physics subject page. • Review the External assessment section of the subject report that can be found on the Teaching tab on the Physics subject page. Focus on <ul style="list-style-type: none"> – examples of effective student responses and practices – practices to strengthen, including recommendations to consider when preparing for external assessment.

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